

APRIL/MAY 2023

DCM34 — RESEARCH METHODOLOGY

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define Hypothesis.

2. Why research is necessary?
3. State the demerits of stratified random sampling.
4. What are the merits of secondary data?
5. Write a short note on Field Editing.
6. Briefly explain the use of computerized analysis.
7. What is degree of freedom?
8. State the basic assumptions of ANOVA.
9. List out the steps involve in drafting a Research report.
10. What are the items include in the main part of the report?



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Write the steps used in selecting a research problem.

Or

- (b) Distinguish between Pure and Applied Research.

12. (a) Explain the demerits of sampling.

Or

- (b) Describe the various stages in interviewing process.

13. (a) What are the different types of analysis of data?

Or

- (b) Describe the characteristics of good table.

14. (a) Explain the assumptions to carry out the F-test.

Or

- (b) What are the statistical tools used in research?

15. (a) Draft the layout of a research report?

Or

- (b) "Report writing is more an art that hinges upon practice and experience" - Discuss

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. State the components of research design.  
17. What step should be taken to select the sample? How to determine the sample size?  
18. Discuss the significance of editing, coding and tabulation of data in the data processing. Why tabulation is considered essential in research study?  
19. Perform two-way ANOVA on the data given below:

Plot of Land Treatment

	A	B	C	D
I	38	40	41	39
II	45	42	49	36
III	40	38	42	42

(Use coding method subtracting 40 from the given number)

20. Describe the considerations and steps involved in planning report writing work.